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L3	22	1 and component	US-PGPUB	OR	ON	2007/05/10 20:58
L4	22	3 and description	US-PGPUB	OR	ON	2007/05/10 20:58
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L8	59	7 and transfer\$4 near database	US-PGPUB	OR	ON	2007/05/10 21:01
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S1	2	"6694325".pn.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/10/05 11:39
S2	3	("5485610" "5933831" "6502088").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/05 11:41
S3	3	("5485610" "5933831" "6502088").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/05 11:41

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Systems: University of Manitoba: description of the PIE system used for MUC-6](#)

Dekang Lin

November 1993 **Proceedings of the 6th conference on Message understanding MUC6 '95****Publisher:** Association for Computational LinguisticsFull text available: [pdf\(757.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The PIE (Principar-driven Information Extraction) system takes a different approach to the problem of information extraction from the NUBA system that was used in MUC-5. The NUBA system did not have a parser and relies on an abductive reasoner to construct the semantic relationships between domain specific concepts mentioned in a sentence. The PIE system, on the other hand, relies heavily on a principle-based broad-coverage parser, called PRINCIPAR [2, 6, 8], that we have developed over the past ...

2 [Indexing in an object-oriented DBMS](#)

David Maier, Jacob Stein

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems OODS '86****Publisher:** IEEE Computer Society PressFull text available: [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe indexing in the GemStone object-oriented database server, which supports a model of objects similar to that of Smalltalk-80. We begin with a brief description of the system's architecture and the role of indexing in GemStone. We then discuss the properties of object-oriented systems, and GemStone in particular, that make indexing considerably different than in a more conventional data model. Various approaches to indexing in an object-oriented model are presented. We describe bo ...

3 [Abstraction in databases](#)

Dennis McLeod, John Miles Smith

June 1980 **ACM SIGMOD Record , ACM SIGART Bulletin , ACM SIGPLAN Notices , Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling**, Volume 11 , , 16 Issue 2 , 74 , 1**Publisher:** ACM PressFull text available: [pdf\(515.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper surveys current research and practice concerning abstraction in database systems. Classical and semantic database models are reviewed and emphasized, as fundamental database abstraction mechanisms.

4 Collective entity resolution in relational data

Indrajit Bhattacharya, Lise Getoor
March 2007 **ACM Transactions on Knowledge Discovery from Data (TKDD)**, Volume 1
Issue 1
Publisher: ACM Press

Full text available:  pdf(511.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many databases contain uncertain and imprecise references to real-world entities. The absence of identifiers for the underlying entities often results in a database which contains multiple references to the same entity. This can lead not only to data redundancy, but also inaccuracies in query processing and knowledge extraction. These problems can be alleviated through the use of *entity resolution*. Entity resolution involves discovering the underlying entities and mapping each database ...

Keywords: Entity resolution, data cleaning, graph clustering, record linkage

5 Portability of syntax and semantics in DATALOG

Carole D. Hafner, Kurt Godden
April 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 2
Publisher: ACM Press

Full text available:  pdf(1.78 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a discussion of the techniques developed and problems encountered during the design, implementation, and experimental use of a portable natural language processor. Datalog (for "database dialogue") is an experimental natural language query system, which was designed to achieve a maximum degree of portability and extendibility. Datalog uses a three-level architecture to provide both portability of syntax to new and extended tasks and portability of semantics to new ...

6 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2
Publisher: ACM Press

Full text available:  pdf(3.83 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 GALILEO: a strongly-typed, interactive conceptual language

Antonio Albano, Luca Cardelli, Renzo Orsini
June 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 2
Publisher: ACM Press

Full text available:  pdf(2.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Galileo, a programming language for database applications, is presented. Galileo is a strongly-typed, interactive programming language designed specifically to support semantic data model features (classification, aggregation, and specialization), as well as the abstraction mechanisms of modern programming languages (types, abstract types, and modularization). The main contributions of Galileo are (a) a flexible type system to model database structure and semantic integrity constraints; (b) ...

8 Self-indexing inverted files for fast text retrieval

Alistair Moffat, Justin Zobel
October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4
Publisher: ACM Press

Full text available:  pdf(484.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Query-processing costs on large text databases are dominated by the need to retrieve and scan the inverted list of each query term. Retrieval time for inverted lists can be greatly reduced by the use of compression, but this adds to the CPU time required. Here we show that the CPU component of query response time for conjunctive Boolean queries and for informal ranked queries can be similarly reduced, at little cost in terms of storage, by the inclusion of an internal index in each compress ...

9 Query optimization in a memory-resident domain relational calculus database system



Kyu-Young Whang, Ravi Krishnamurthy

March 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(2.46 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...

10 Descriptive databases in some design/manufacturing environments

Edward Marlow Hoskins

June 1979 **Proceedings of the 16th Conference on Design automation DAC '79**

Publisher: IEEE Press

Full text available: pdf(611.59 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In the development of substantial integrated computer-aided design systems, one of the most crucial features is the creation of purpose-made data structures. These have to be designed with growth and change in mind and in the course of the design process can reach a substantial size. They form the central source and design information about a particular product. They are used to generate drawings, assembly information schedules etc. for production purposes as well as being the data source a ...

11 An agent architecture for personalized Web stores



L. Ardissono, C. Barbero, A. Goy, G. Petrone

April 1999 **Proceedings of the third annual conference on Autonomous Agents AGENTS '99**

Publisher: ACM Press

Full text available: pdf(1.02 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.


Full text available: pdf(28.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

13 Algorithms: Predicting resource usage and estimation accuracy in an IP flow measurement collection infrastructure


-  Nick Duffield, Carsten Lund
October 2003 **Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement IMC '03**


Publisher: ACM Press

Full text available:  pdf(362.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes a measurement infrastructure used to collect detailed IP traffic measurements from an IP backbone. Usage, i.e, bytes transmitted, is determined from raw NetFlow records generated by the backbone routers. The amount of raw data is immense. Two types of data sampling in order to manage data volumes: (i) (packet) sampled NetFlow in the routers; (ii) size-dependent sampling of NetFlow records. Furthermore, dropping of NetFlow records in transmission can be regarded as an uncontr ...

Keywords: bandwidth, estimation, sampling, variance

- 14 [Final report of the ANSI/X3/SPARC DBS-SG relational database task group](#) 
July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4

 **Publisher:** ACM Press

Full text available:  pdf(4.69 MB) Additional Information: [full citation](#), [citations](#)

- 15 [Draft report on requirements for a common prototyping system](#) 

 R. P. Gabriel
March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3


Publisher: ACM Press

Full text available:  pdf(4.76 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

- 16 [Types and persistence in database programming languages](#) 


 Malcolm P. Atkinson, O. Peter Buneman
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Publisher: ACM Press

Full text available:  pdf(7.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

- 17 [ITiCSE 2005 working group reports: Building a sense of history: narratives and pathways of women computing educators](#) 

 Vicki L. Almstrum, Lecia J. Barker, Barbara Boucher Owens, Elizabeth Adams, William Aspray, Nell B. Dale, Wanda Dann, Andrea Lawrence, Leslie Schwartzman
December 2005 **ACM SIGCSE Bulletin**, Volume 37 Issue 4

Publisher: ACM Press

Full text available:  pdf(370.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This working group laid the groundwork for the collection and analysis of oral histories of women computing educators. This endeavor will eventually create a body of narratives to serve as role models to attract students, in particular women, to computing; it will also serve to preserve the history of the female pioneers in computing education. Pre-conference work included administration of a survey to assess topical interest. The working group produced aids for conducting interviews, including ...

Keywords: computing education history, oral history

18 A threaded/flow approach to reconfigurable distributed systems and service



primitives architectures

L. F. Ludwig

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology SIGCOMM '87**, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

19 Federated database systems for managing distributed, heterogeneous, and



autonomous databases

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

20 Product lines & processes: Five years of product line engineering in a small company



Martin Verlage, Thomas Kiesgen

May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(328.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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In 1999, a new team at MARKET MAKER Software AG began to develop a software product line for managing and displaying stock market data and financial market news. The basic idea was to use web technology in all applications for delivering services to customers. It soon turned out that the company had to change both the processes and the organization. This report summarizes the changes made and the lessons learned over the past five years, when the product line idea was introduced into a small com ...

Keywords: SME, experience report, product line engineering, project management

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Indexing in an object-oriented DBMS](#)

David Maier, Jacob Stein

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems OODS '86**

Publisher: IEEE Computer Society Press

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Indrajit Bhattacharya, Lise Getoor

March 2007 **ACM Transactions on Knowledge Discovery from Data (TKDD)**, Volume 1 Issue 1

Publisher: ACM Press

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Keywords: Entity resolution, data cleaning, graph clustering, record linkage**3** [Abstraction in databases](#)

Dennis McLeod, John Miles Smith

June 1980 **ACM SIGMOD Record , ACM SIGART Bulletin , ACM SIGPLAN Notices , Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling**, Volume 11 , , 16 Issue 2 , 74 , 1

Publisher: ACM Press

Full text available: [pdf\(515.22 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


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Full text available:  [pdf\(28.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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6 EXPRESS: a data EXtraction, Processing, and Restructuring System



N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum

June 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(2.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

Keywords: data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

7 Final report of the ANSI/X3/SPARC DBS-SG relational database task group




July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(4.69 MB\)](#) Additional Information: [full citation](#), [citations](#)

8 Portability of syntax and semantics in DATALOG

-  Carole D. Hafner, Kurt Godden
April 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 2
Publisher: ACM Press


Full text available:  pdf(1.78 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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9 Polymorphism and type inference in database programming

-  Peter Buneman, Atsushi Ohori
March 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 1
Publisher: ACM Press

Full text available:  pdf(2.96 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In order to find a static type system that adequately supports database languages, we need to express the most general type of a program that involves database operations. This can be achieved through an extension to the type system of ML that captures the polymorphic nature of field selection, together with a techniques that generalizes relational operators to arbitrary data structures. The combination provides a statically typed language in which generalized relational databases may be cl ...

Keywords: generalized relational algebra, inheritance, object-oriented databases, polymorphism, record calculus, type inference

10 An extended owner-coupled set data model and predicate calculus for database management

-  J. Bradley
December 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4
Publisher: ACM Press

Full text available:  pdf(2.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A data model is presented, based on the extension of the concept of a DBTG owner-coupled set to permit static and dynamic sets and a new kind of set referred to as a virtual set. The notion of connection fields is introduced, and it is shown how connection fields may be used to construct derived information bearing set names, and hence permit the specification of (dynamic) sets which are not predeclared in a schema. Virtual ...

Keywords: Codasyl DBTG, DSL ALPHA, connection field, dynamic set, extended Bachman diagram, extended owner-coupled set data model, extended owner-coupled set predicate calculus, functional dependency, information bearing set name, owner-coupled set, static set, virtual set

11 Artificial intelligence

- Elaine Rich
January 1983 Book
Publisher: McGraw-Hill, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

12 Semantics of query languages for network databases

 Kazimierz Subieta

September 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available:  pdf(3.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Semantics determines the meaning of language constructs; hence it says much more than syntax does about implementing the language. The main purpose of this paper is a formal presentation of the meaning of basic language constructs employed in many database languages (sublanguages). Therefore, stylized query languages SSL (Sample Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in other query languages are collected. The semantics of SSL and J are ...

13 ITiCSE 2005 working group reports: Building a sense of history: narratives and pathways of women computing educators



Vicki L. Almstrum, Lecia J. Barker, Barbara Boucher Owens, Elizabeth Adams, William Aspray, Nell B. Dale, Wanda Dann, Andrea Lawrence, Leslie Schwartzman

December 2005 **ACM SIGCSE Bulletin**, Volume 37 Issue 4

Publisher: ACM Press

Full text available:  pdf(370.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: computing education history, oral history

14 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


15 Algorithms: Predicting resource usage and estimation accuracy in an IP flow measurement collection infrastructure



Nick Duffield, Carsten Lund

October 2003 **Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement IMC '03**

Publisher: ACM Press

Full text available:  pdf(362.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Keywords: bandwidth, estimation, sampling, variance

16 Special section: Special issue on AI and Database research

 Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86

Publisher: ACM Press


Full text available:  pdf(3.84 MB) Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

17 Transformation of data traversals and operations in application programs to account for semantic changes of databases

 Stanley Y. W. Su, Herman Lam, Der Her Lo
June 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 2


Publisher: ACM Press

Full text available:  pdf(3.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses the problem of application program conversion to account for changes in database semantics that result in changes in the schema and database contents. With the observation that the existing data models can be viewed as alternative ways of modeling the same database semantics, a methodology of application program analysis and conversion based on an existing-DBMS-model-and schema-independent representation of both the database and programs is presented. In this methodolog ...

Keywords: access pattern, application program conversion, database changes, semantic data model, transformation rules

18 A data model and data structures for moving objects databases

 Luca Forlizzi, Ralf Hartmut Güting, Enrico Nardelli, Markus Schneider
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider spatio-temporal databases supporting spatial objects with continuously changing position and extent, termed *moving objects databases*. We formally define a data model for such databases that includes complex evolving spatial structures such as line networks or multi-component regions with holes. The data model is given as a collection of data types and operations which can be plugged as attribute types into any DBMS data model (e.g. relational, or object-oriented) to obtain ...

19 Data conversion and restructuring: An Access Path Specification Language for restructuring network databases

 Donald Swartwout
August 1977 **Proceedings of the 1977 ACM SIGMOD international conference on Management of data SIGMOD '77**

Publisher: ACM Press

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Access Path Specification Language (APSL) is a high-level essentially nonprocedural language for specifying restructuring transformations of network databases. It does so in terms of application-oriented concepts such as access strategies and selection criteria. APSL's approach to restructuring emphasizes description of the source *structures* from which target data is to be retrieved, rather than the *operations* needed to convert source constructs to target constructs. The latter ...

Keywords: data translation, data translation language, data translation software, database restructuring, network databases, network restructuring, restructuring languages, restructuring software, translation specification languages

- 20 Systems: University of Manitoba: description of the PIE system used for MUC-6
Dekang Lin
November 1993 **Proceedings of the 6th conference on Message understanding MUC6 '95**

Publisher: Association for Computational Linguistics

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The PIE (Principar-driven Information Extraction) system takes a different approach to the problem of information extraction from the NUBA system that was used in MUC-5. The NUBA system did not have a parser and relies on an abductive reasoner to construct the semantic relationships between domain specific concepts mentioned in a sentence. The PIE system, on the other hand, relies heavily on a principle-based broad-coverage parser, called PRINCIPAR [2, 6, 8], that we have developed over the past ...

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

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IEEE STD IEEE Standard

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